

WHAT IS CLAIMED IS:

1. A scintillator panel comprising a radiation-transparent substrate, a flat resin film formed on said substrate, a reflecting film formed on said flat resin film, and a scintillator formed on said reflecting film.
2. A scintillator panel according to claim 1, wherein at least a part of said scintillator is covered with a transparent organic film.
3. A scintillator panel according to claim 2, wherein said transparent organic film covers over the all surfaces of said scintillator.
4. A scintillator panel according to claim 3, wherein said transparent organic film reaches to the surfaces of said substrate.
5. A radiation image sensor comprising a radiation-transparent substrate, a flat resin film formed on said substrate, a reflecting film formed on said flat resin film, a scintillator formed on said reflecting film, and an imaging device disposed so as to face said scintillator.
6. A radiation image sensor according to claim 5, wherein at least a part of said scintillator is covered with a transparent organic film.
7. A radiation image sensor according to claim 6, wherein said transparent organic film covers over the all surfaces of said scintillator.

surfaces of said scintillator.

8. A radiation image sensor according to claim 7, wherein said transparent organic film reaches to the surfaces of said substrate.

5 9. A method of making a scintillator panel comprising steps of:

forming a flat resin film on a radiation-transparent substrate;

10 forming a reflecting film on said flat resin film; and

forming a scintillator on said reflecting film.

15 10. A method of making a scintillator panel according to claim 9, further comprising a step of covering at least a part of said scintillator with a transparent organic film.

11. A method of making a scintillator panel according to claim 10, wherein said transparent organic film covers the all surfaces of said scintillator.

20 12. A method of making a scintillator panel according to claim 11, wherein said transparent film reaches to the surfaces of said substrate.

13. A method of making a radiation image sensor comprising steps of:

25 forming a flat resin film on a radiation-transparent substrate;

forming a reflecting film on said flat resin film;

forming a scintillator on said reflecting film; and  
disposing an imaging device opposite said  
scintillator.

14. A method of making a radiation image sensor  
5 according to claim 13, further comprising a step of covering  
at least a part of said scintillator with a transparent  
organic film.

10 15. A method of making a radiation image sensor  
according to claim 14, wherein said transparent organic film  
is covering the all surfaces of said scintillator.

16. A method of making a radiation image sensor  
according to claim 15, wherein said transparent film reaches  
to the surfaces of said substrate.

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